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Specifications sheet: Fast Correction PWM Automatic Voltage Regulator (AVR), ± 26% series

| CATEGORY | FEATURE | SINGLE PHASE MODELS | | | |
|----------------------------|--|--|-----------------------------|-----------------------------|-----------------------------|
| | | VRp-3000-9230-260 | VRp-5000-9230-260 | VRp-7000-9230-260 | VRp-10000-9230-260 |
| ELECTRICAL | Capacity in KVA (KW) | 3 KVA | 5 KVA | 7 KVA | 10 KVA |
| | Regulator engine | High frequency 20 Khz IGBT driven voltage regulation convertor | | | |
| INPUT | *Nominal voltage | 230 volts ac, single phase | | | |
| | *Normal operating voltage (typical output regulation within +/- 1% of nominal) | 170 - 290 volts ac for full regulation | | | |
| | Relaxed operating voltage (relaxed output regulation within functional range of 200-250V P-N) | 148 - 315 volts ac within maximum rated input current capacity | | | |
| | Maximum rated input current | 18A | 29A | 40A | 59 A |
| | Nominal frequency | 47 - 63 Hz | | | |
| | Input circuit breaker rating | 20 A X 2 phase (ganged MCB) | 32 A X 2 phase (ganged MCB) | 40 A X 2 phase (ganged MCB) | 63 A X 2 phase (ganged MCB) |
| | Input wire size | 4 mm ² (AWG 12) | 6 mm ² (AWG 10) | 6 mm ² (AWG 10) | 10 mm ² (AWG 8) |
| Ac connection | Terminal block (L1in, neutral and ground wires) provided | | | | |
| OUTPUT | *Nominal voltage | 230 volts ac, single phase | | | |
| | Power efficiency | typically over 95 % (with 20 - 100% load conditions) | | | |
| | Voltage regulation (typical, excluding meter error) | +/- 1% | | | |
| | Maximum rated output current | 13A | 22A | 30A | 43A |
| | System status indicator | Green LED (ON) indicates Normal (regulating mode) operation | | | |
| Ac connection | Terminal block (L1top, neutral and ground wires) provided | | | | |
| PHYSICAL | Dimensions (IN MM) | 435D x 300W x 175H | 540D x 405W x 280H | | |
| | Weight (approx.) | 30 kgs | 40 kgs | 50 kgs | 60 Kgs |
| | Annunciation | LED display for Regulation mode, Bypass mode & Fault conditions | | | |
| | Mounting | Pad Mounted | | | |
| ENVIRONMENTAL | Ambient temperature | 0 ^o to + 45 ^o centigrade (32 ^o to +113 ^o farhenite). 10 to 90% RH non-condensing | | | |
| | Cooling method | Natural Cooled | | | |
| PROTECTIVE FEATURES | Standards & Safety | Designed to meet UL 60950-1 standards. Protection class IP 20. | | | |
| | Overload & Short Circuit Protection | Through suitably rated input circuit breaker | | | |
| | Soft Switch-On | This feature ensure that output voltage is never higher than input voltage upon switch-on, before it commences full stabilization. | | | |
| | Automatic bypass | Automatic bypass will be activated when there is a fault condition | | | |
| | Surge Test Conditions | Per Class 2 Surge (combination wave) | | | |
| Surge let-through voltages | 1.2 X 50µs, 6kV, 8 X 20 µs, 3 kA waveform. L-N < 300V | | | | |
| WARRANTY | Warranty | Two year limited warranty, covering repair/replacement of defective parts | | | |
| NOTES | <p>1. All * marked voltage regulation ranges are based on 230 V nominal output voltage. They would propoortinately change in case nominal output voltage is required to be preset at any other value between 215-240 V.</p> <p>2. Please ask if any non-standard range or customised feature is required.</p> <p>3. Since our designs are constantly evolving, the above specifications are liable to change without prior notice.</p> | | | | |